What is claimed is:

- A feeler gage comprising:
  - a pin with a first end and an opposite end;
  - a gaging protrusion connected to the opposite end with a free end projecting past a peripheral dimension of said pin; and
  - an indicator formed on the first end in alignment with a longitudinal axis of said gaging protrusion for determining a position of said gaging protrusion upon rotation of said pin.
- 2. The feeler gage according to claim 1 wherein said gaging protrusion is removably connected to the opposite end of said pin.
- 3. The feeler gage according to claim 2 wherein the opposite end of said pin is connectable to a plurality of gaging protrusions of varying thicknesses.
- 4. The feeler gage according to claim 1 wherein said pin further includes a gripping portion adjacent the first end thereof.

- 5. The feeler gage according to claim 3 wherein said pin further includes a gripping portion adjacent the first end thereof.
- 6. The feeler gage according to claim 1 wherein said indicator is a scribe line formed at the first end of said pin.
- 7. The feeler gage according to claim 3 wherein said indicator is a scribe line formed at the first end of said pin.
- 8. The feeler gage according to claim 5 wherein said indicator is a scribe line formed at the first end of said pin.
- 9. A combination of a feeler gage with a hatch-locking ring arrangement for a measurement therein, said combination comprising:
  - a locking ring having a plurality of lug members

    projecting from an inner peripheral surface thereof,

    and spaced to form corresponding notched recesses

    therebetween;
  - a hatch member engageable with said locking ring and having a plurality of hatch lug members projecting

from an outer peripheral surface thereof, and spaced to form corresponding notched recesses therebetween, wherein rotation of said locking ring with respect to said hatch enables superposition of said locking ring lugs with corresponding ones of said hatch lugs; and

- a gasket seat connected to said locking ring, said hatch seated on said gasket seat;
- wherein an opening is defined by a space between said

  hatch and said locking ring when said lugs of said

  hatch are superposed with said lugs of said locking

  ring thereby allowing said feeler gage to be

  inserted in the opening and rotatable for the

  measurement therein.
- 10. The combination according to claim 9 wherein said feeler gage comprises:
  - a pin having a first end and an opposite end;
  - a gaging protrusion connected to the opposite end with a free end projecting past a peripheral dimension of said pin; and

- an indicator formed on the first end in alignment with a longitudinal axis of said gaging protrusion for determining a position of said gaging protrusion upon rotation of said pin.
- 11. The combination according to claim 10 wherein said pin further includes a gripping portion adjacent the first end thereof.
- 12. The combination according to claim 10 wherein said indicator is a scribe line formed at the first end of said pin.
- 13. The combination according to claim 11 wherein said indicator is a scribe line formed at the first end of said pin.
- 14. A method of measuring deflection of two opposing surfaces, said method comprising the steps of:

providing a gage, said gage including a pin with an indicator on a first end of said pin, said indicator in alignment with the longitudinal axis of a gaging protrusion extending from an opposite end and a peripheral dimension of said pin;

rotating said gaging protrusion to an end rotating point;
observing an arc of rotation of said indicator to
said end rotating point; and

determining the deflection based on said arc of rotation.

15. The method in accordance with claim 14 said method comprising the further steps of:

removing said gage protrusion;

replacing said gage protrusion with another gage protrusion of a varying thickness;

rotating said gage protrusion of a varying thickness to a subsequent end rotating point;

observing an arc of rotation of said indicator to said subsequent end rotating point; and

determining the deflection based on said arc of rotation.